

Synthesis of novel pyrazolylmethylene-pyrimidine heterocycles: potential synthons for hybrid β -lactams

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Supplementary Materials

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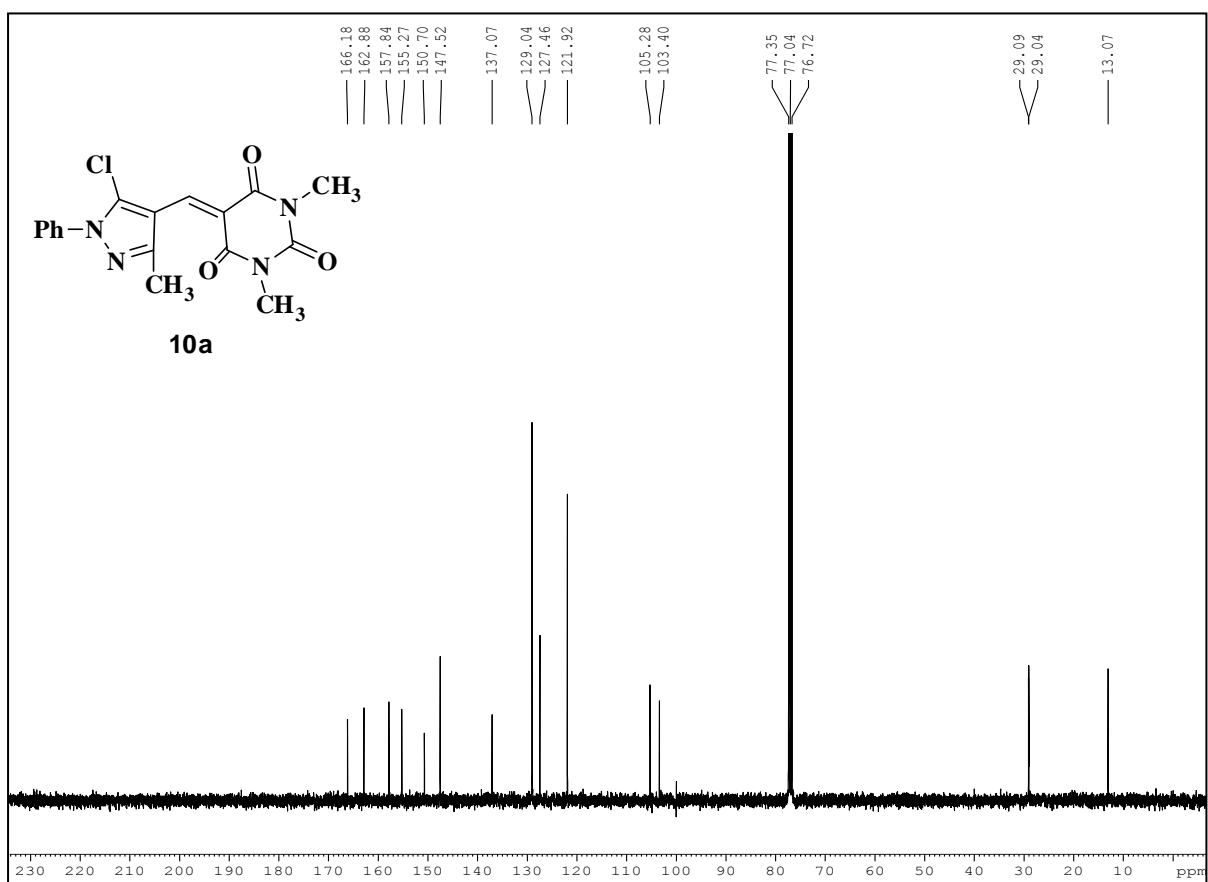
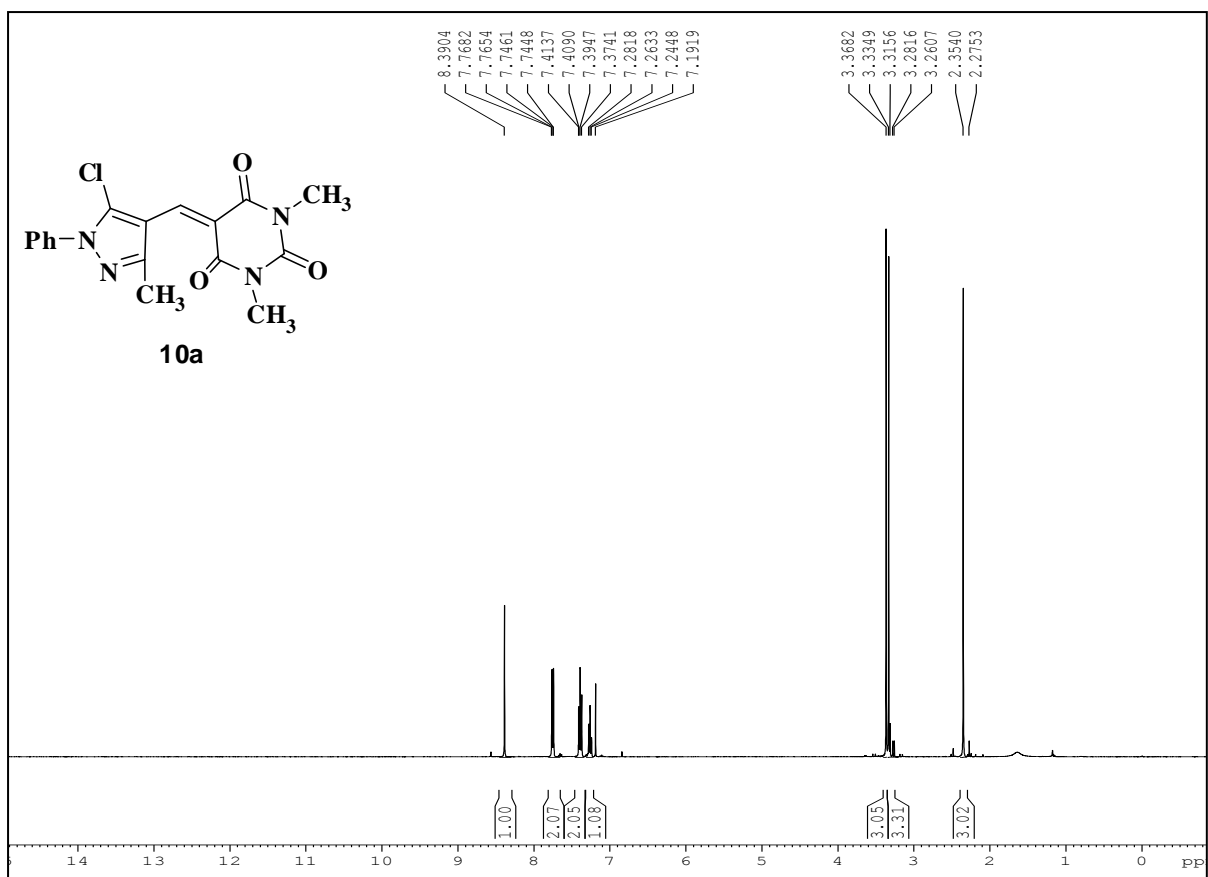


Figure S1: ^1H and ^{13}C NMR Spectra of 10a in CDCl_3

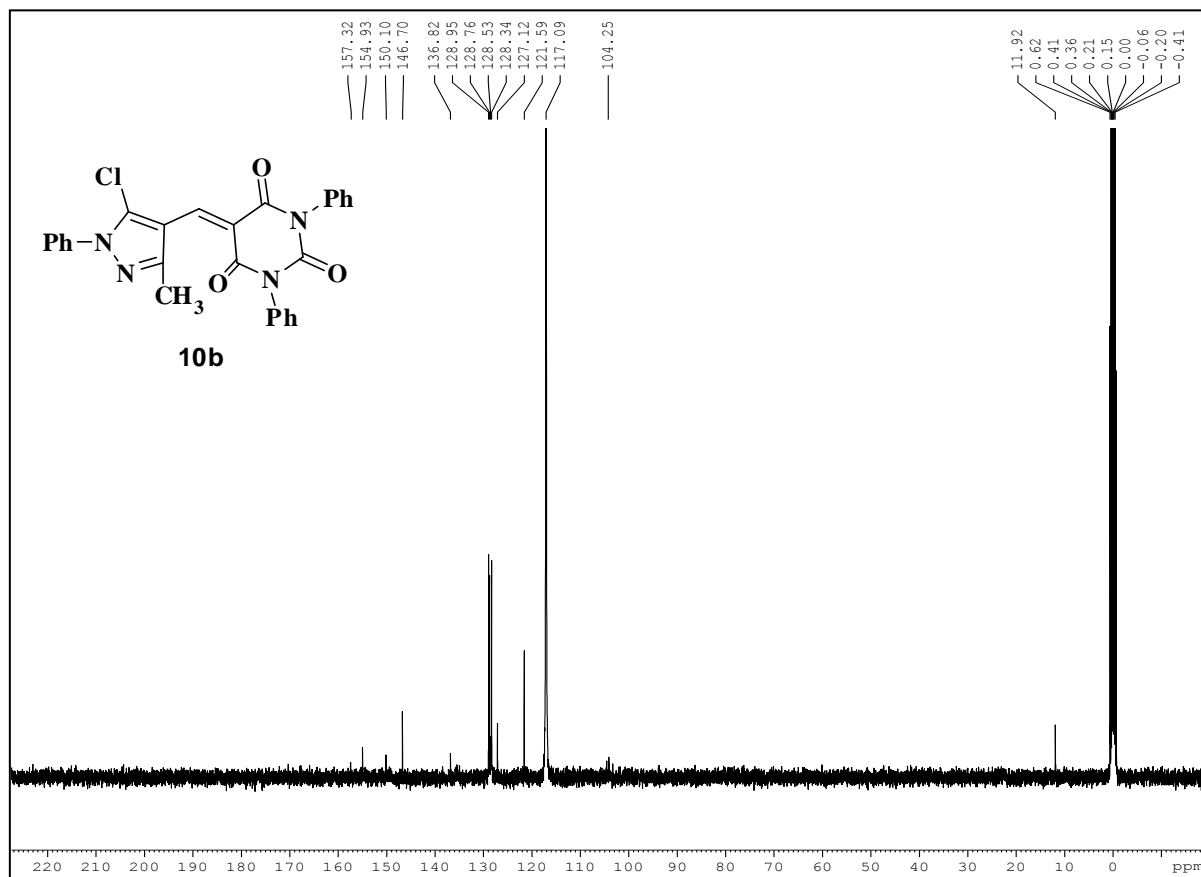
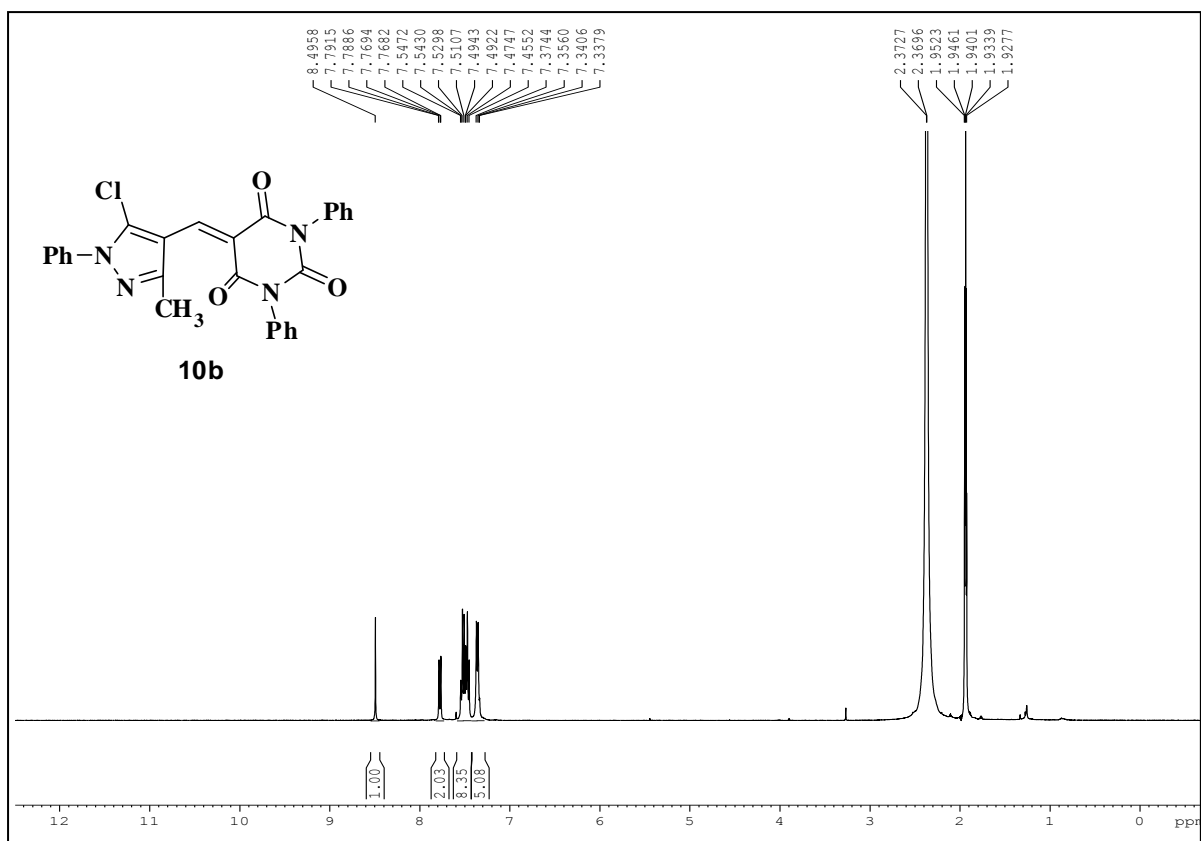


Figure S2: ^1H and ^{13}C NMR Spectra of **10b** in CD_3CN

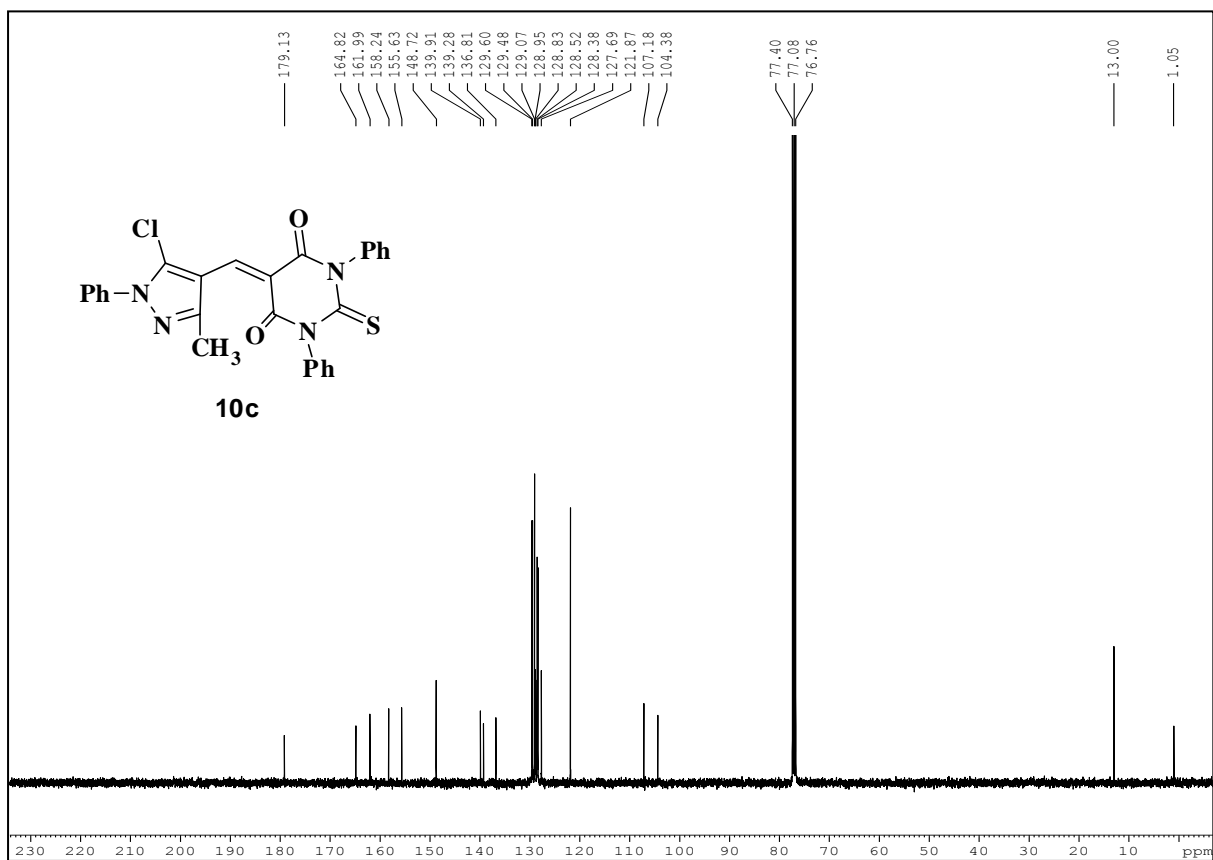
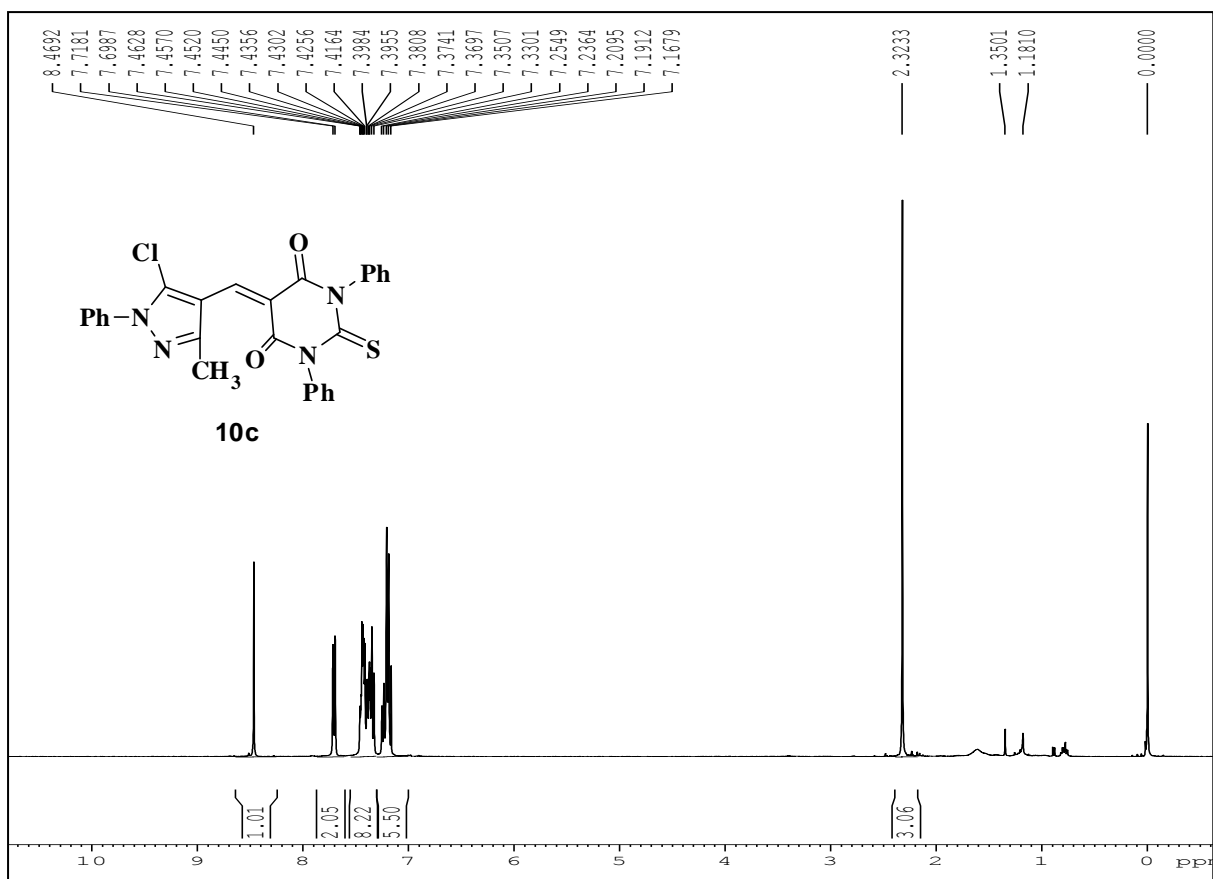


Figure S3: ¹H and ¹³C NMR Spectra of 10c in CDCl₃

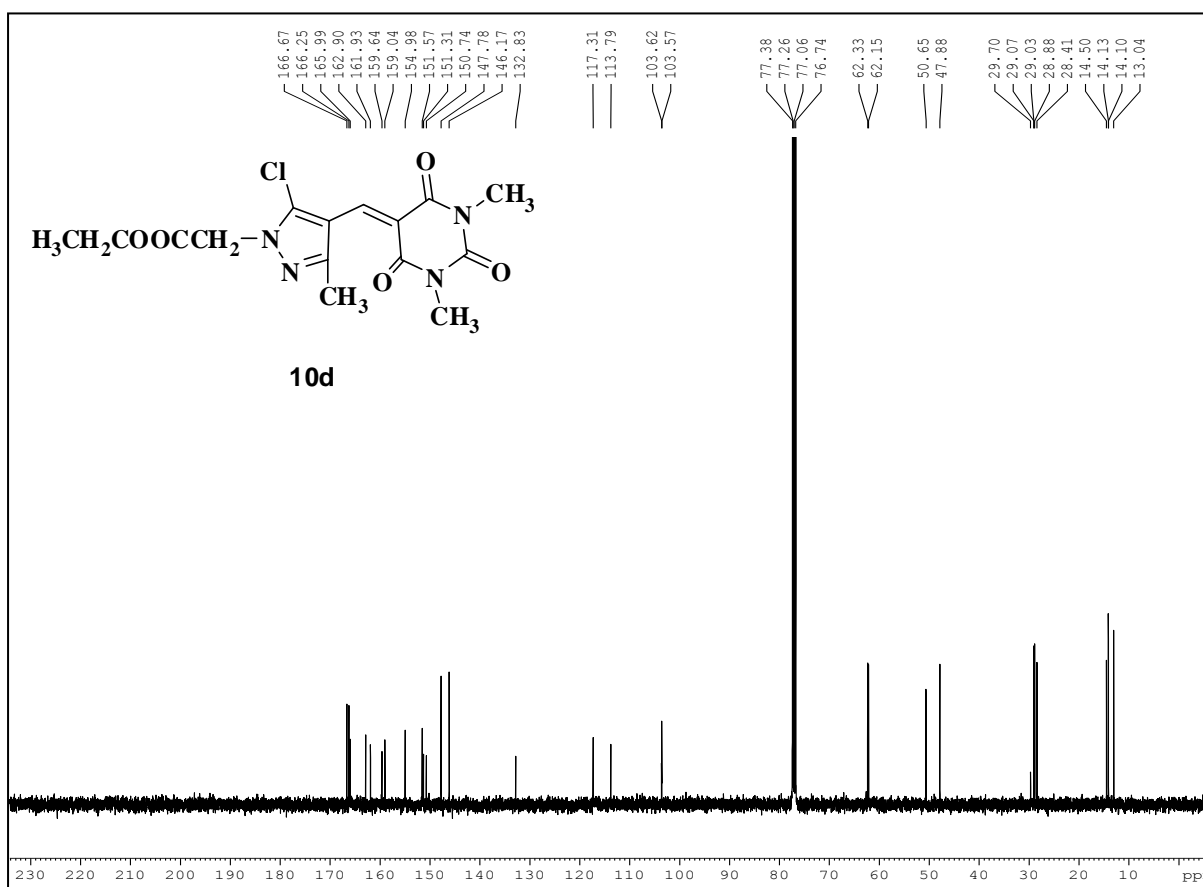
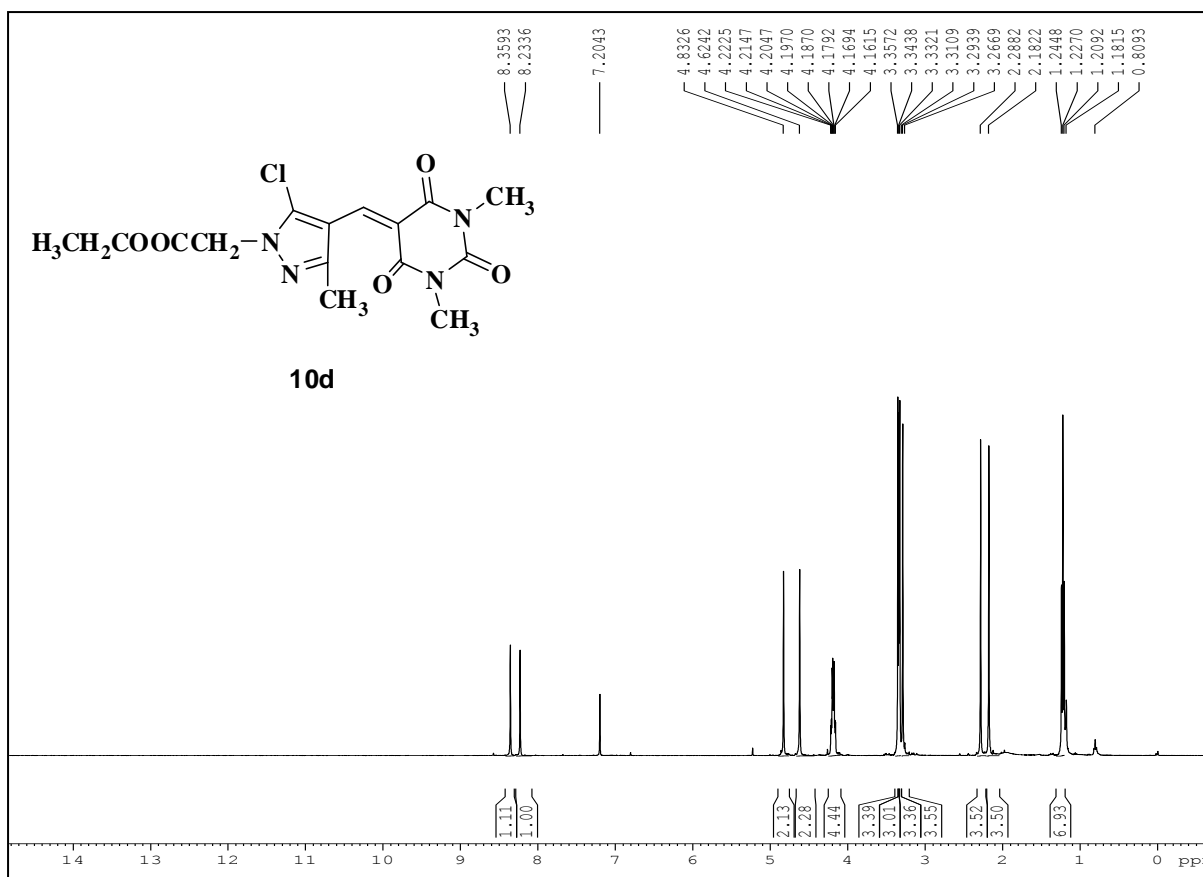


Figure S4: ^1H and ^{13}C NMR Spectra of **10d** in CDCl₃

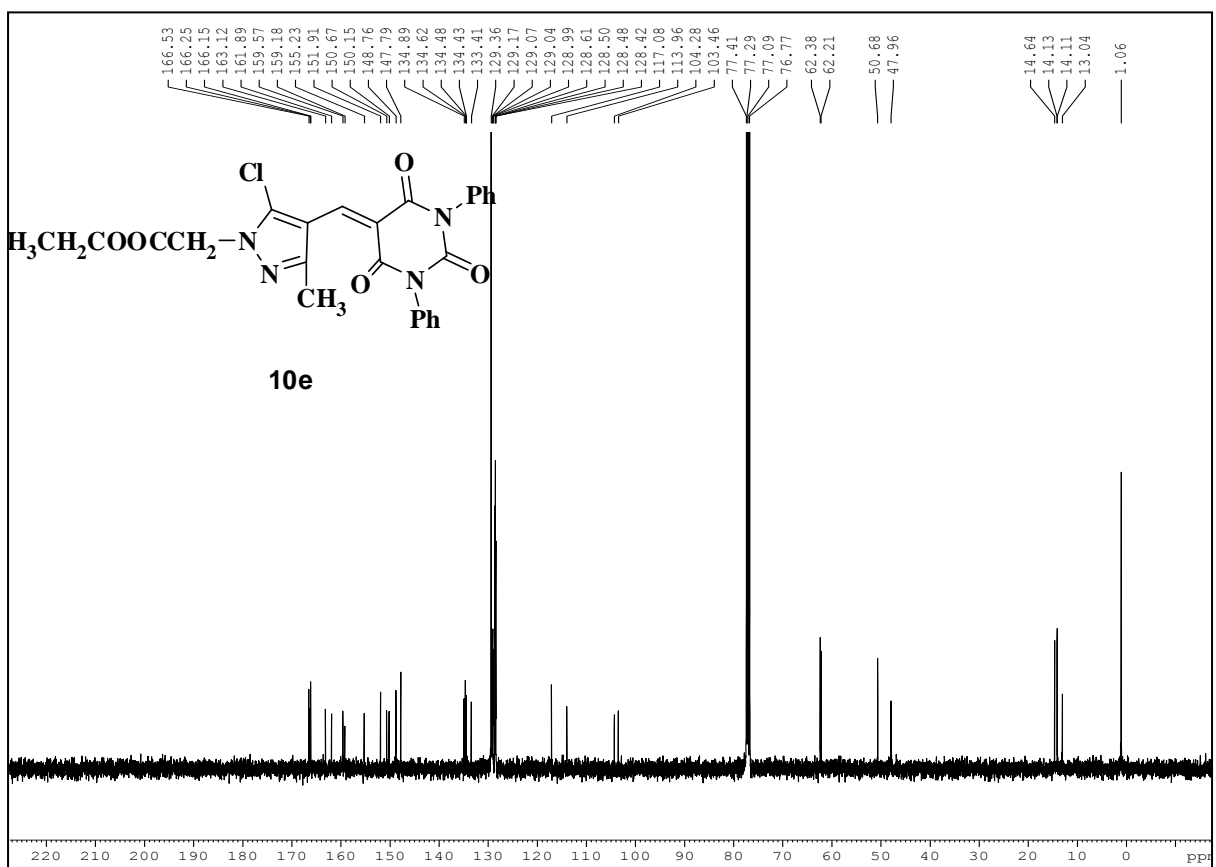
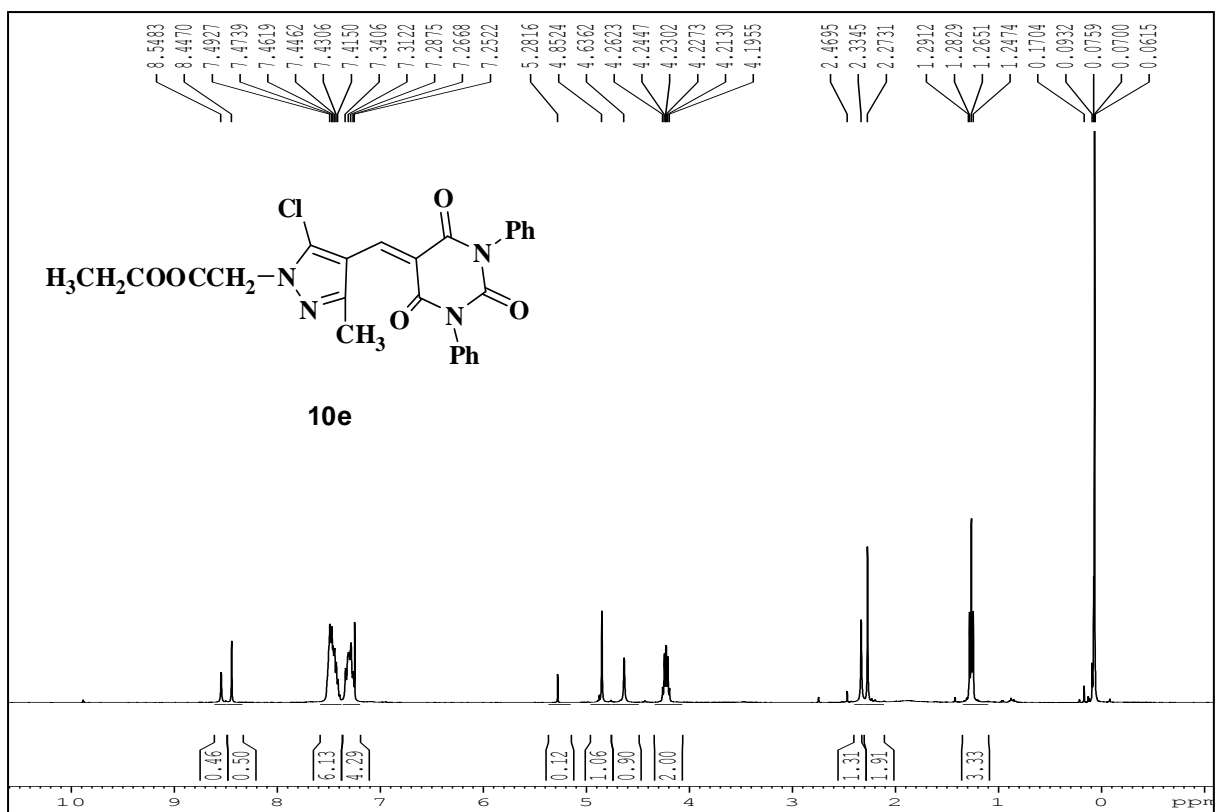


Figure S5: ^1H and ^{13}C NMR Spectra of **10e** in CDCl_3

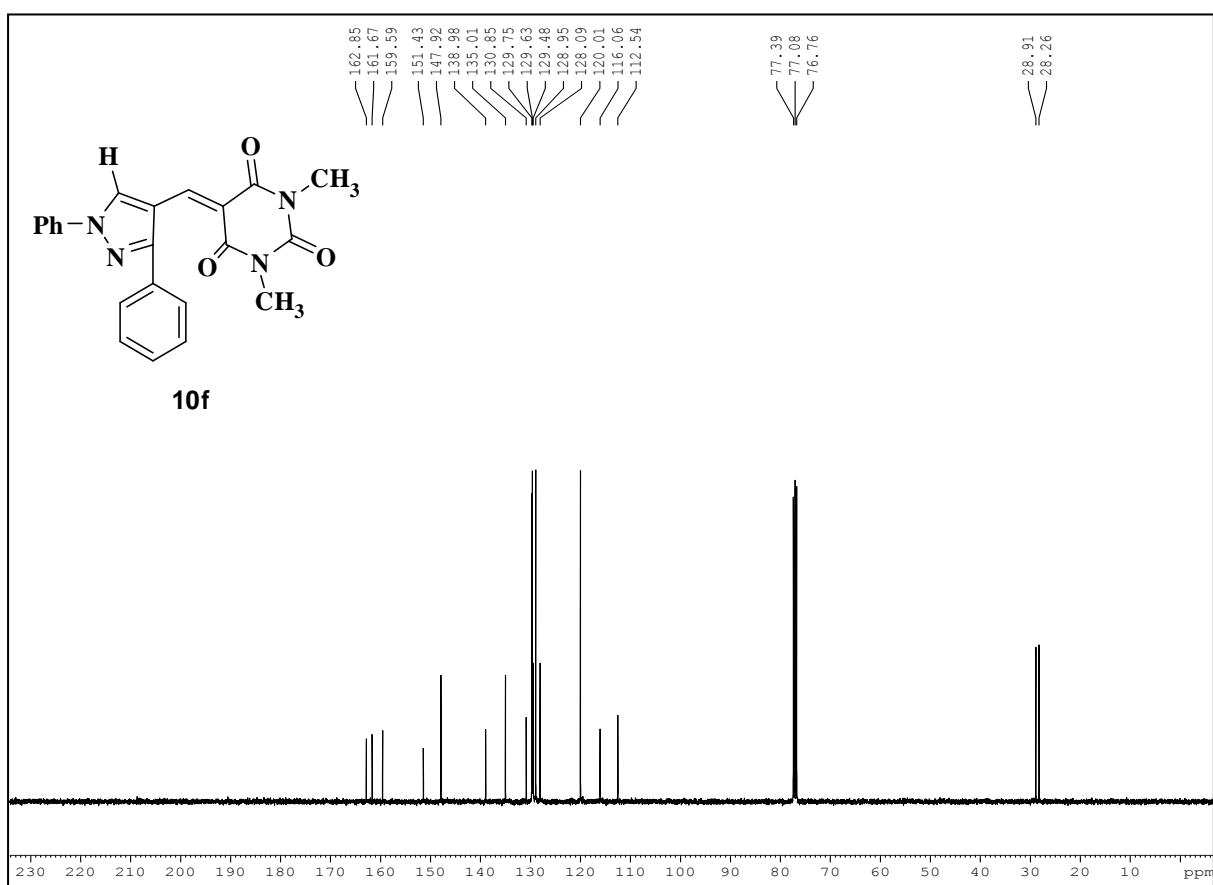
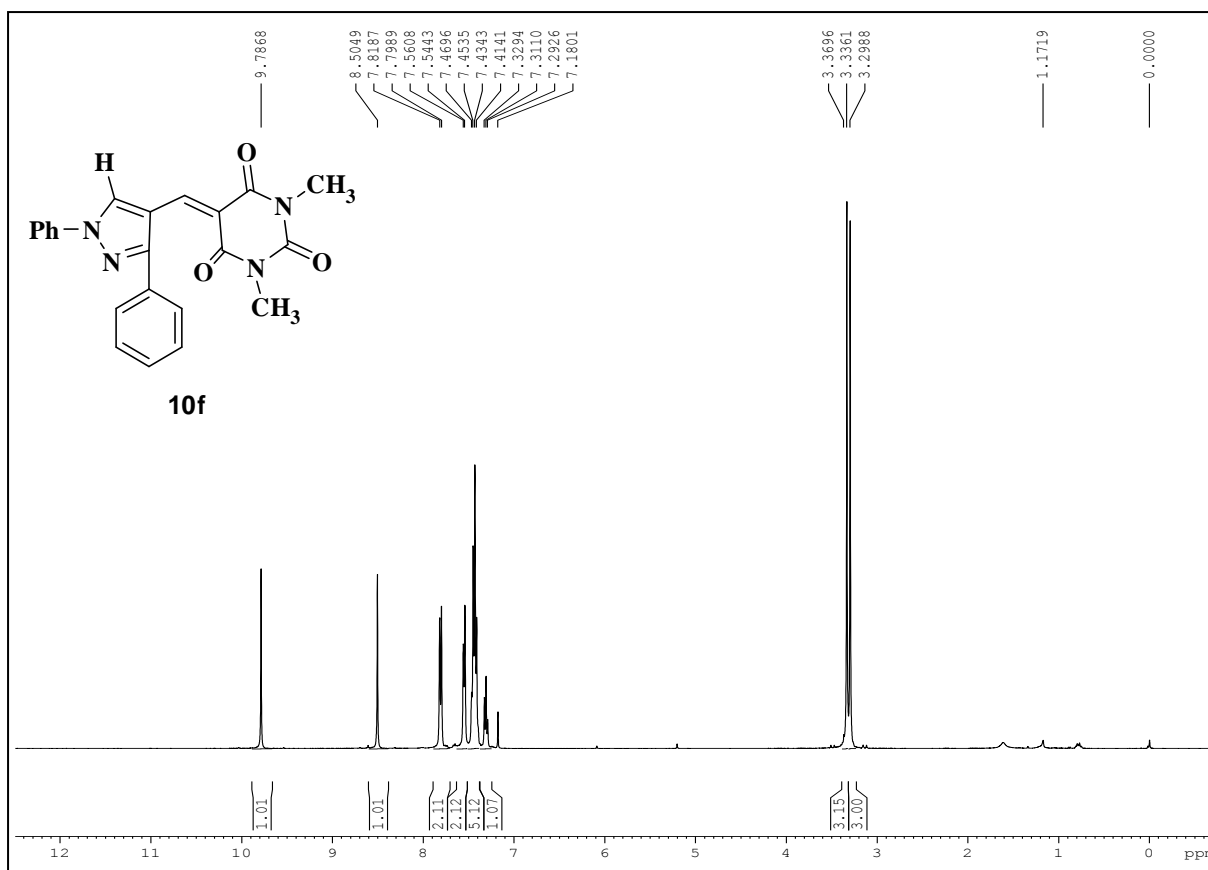


Figure S6: ^1H and ^{13}C NMR Spectra of **10f** in CDCl_3

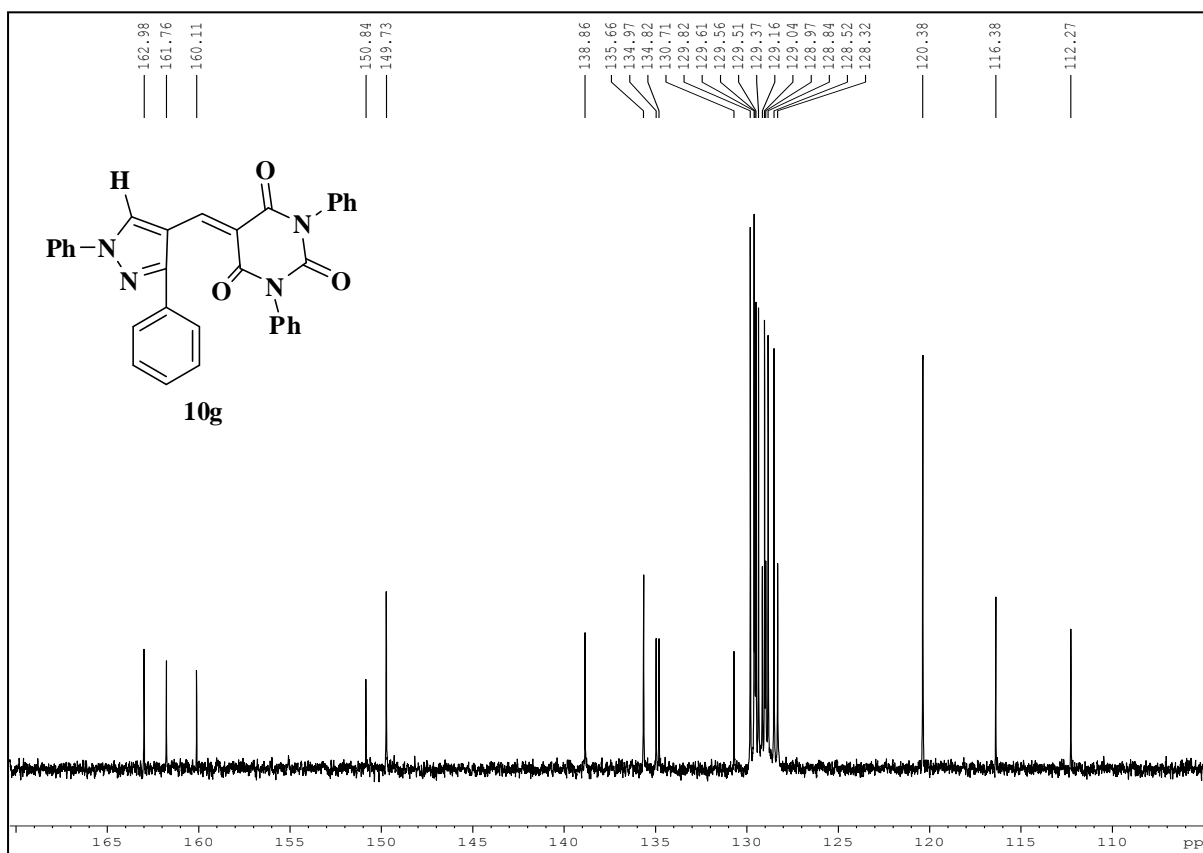
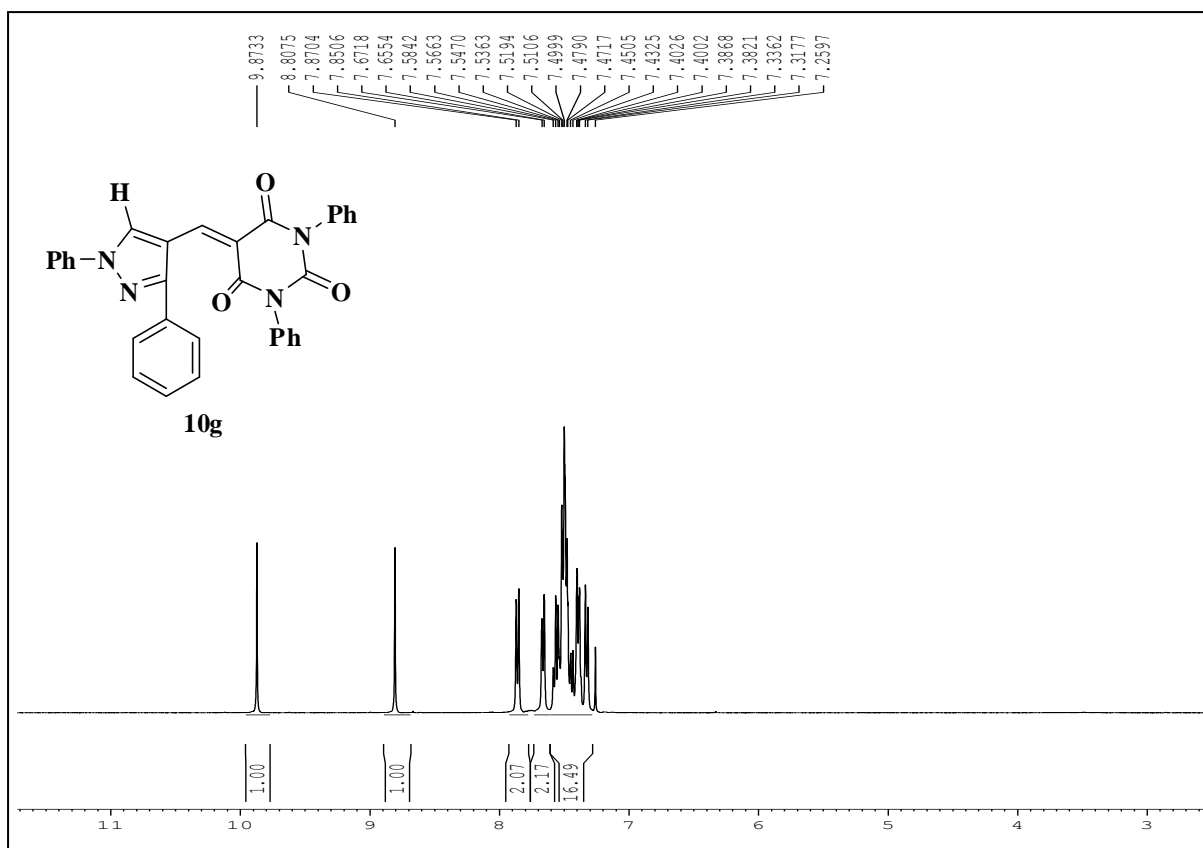


Figure S7: ¹H and ¹³C NMR Spectra of 10g in CDCl₃

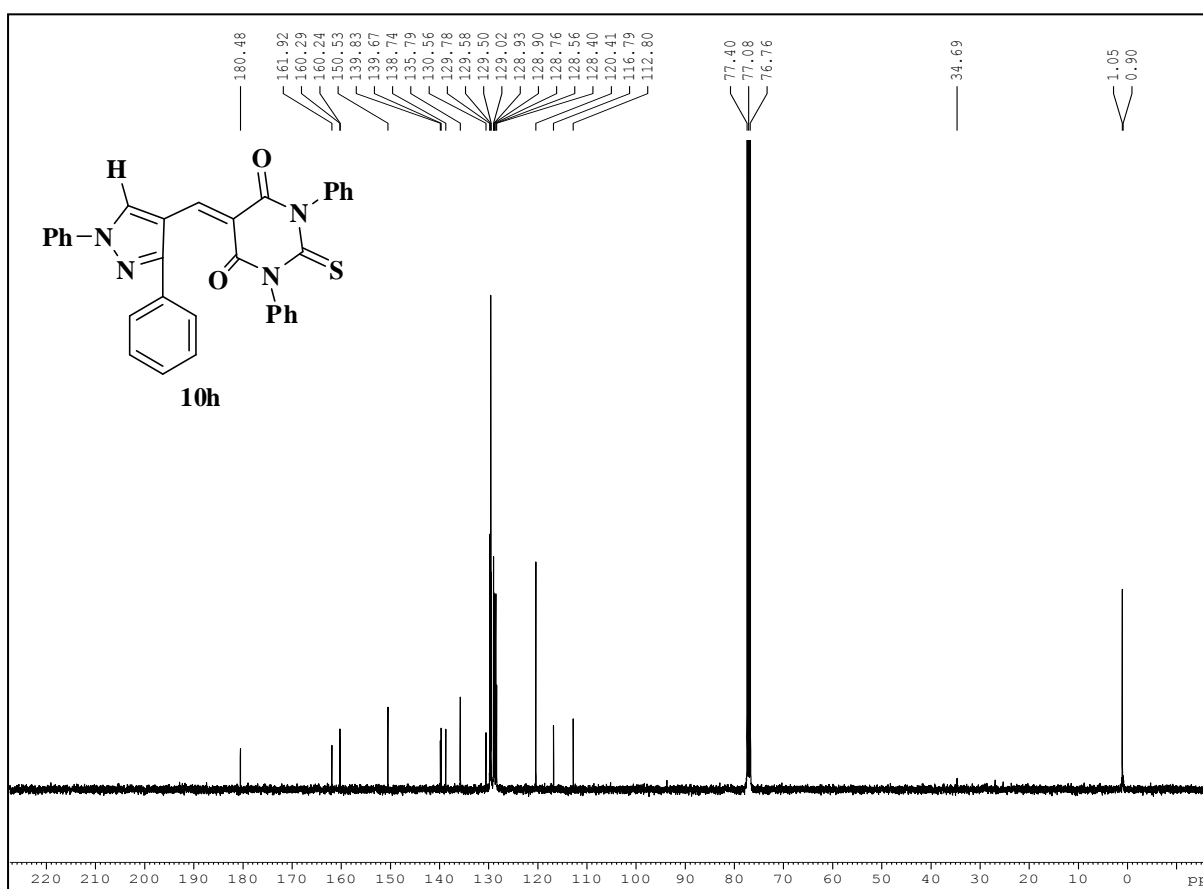
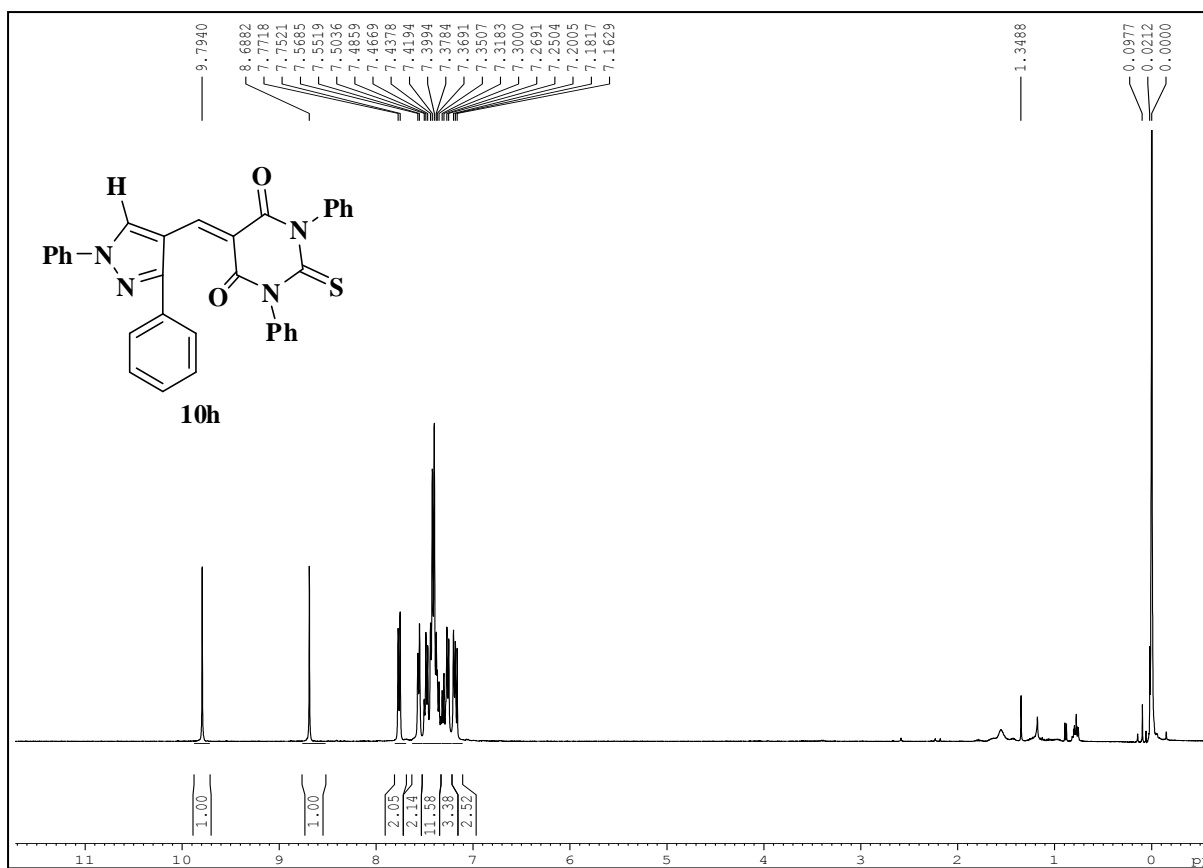


Figure S8: ¹H and ¹³C NMR Spectra of 10h in CDCl₃

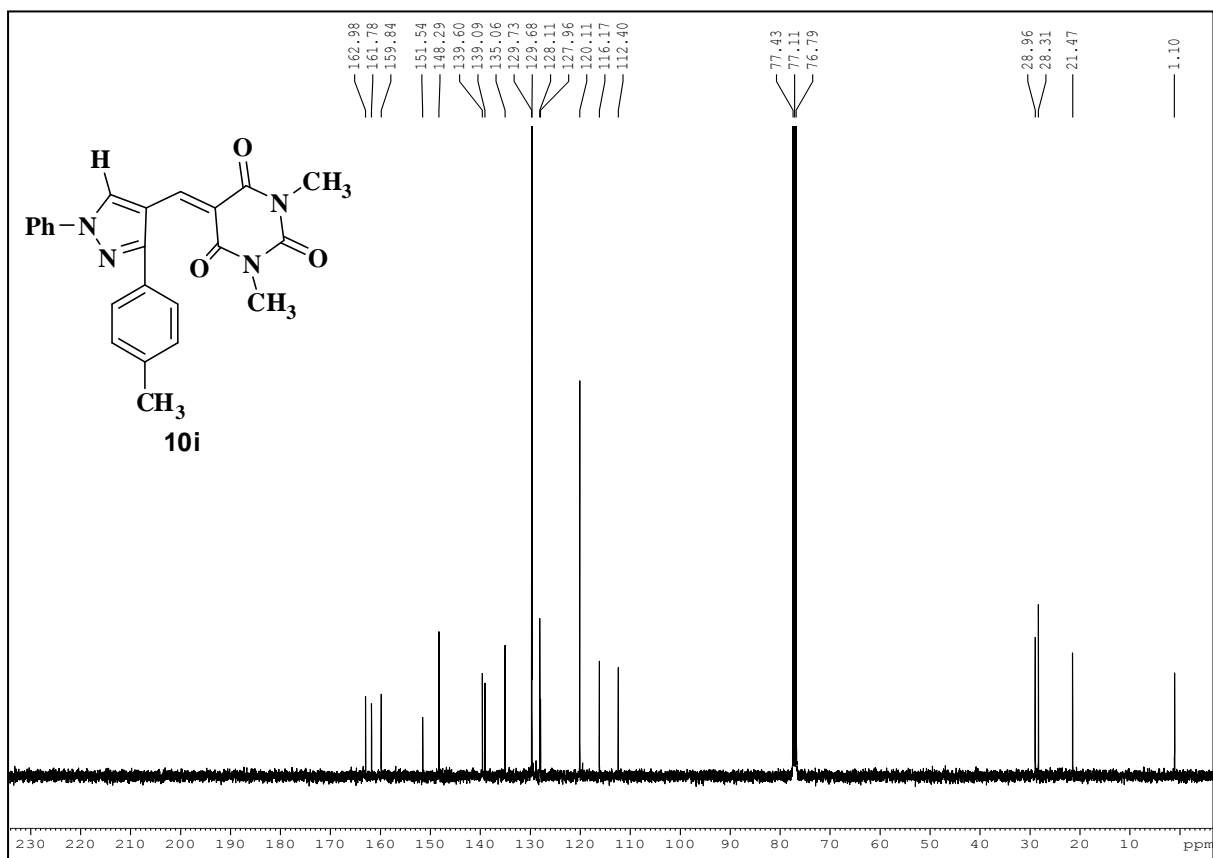
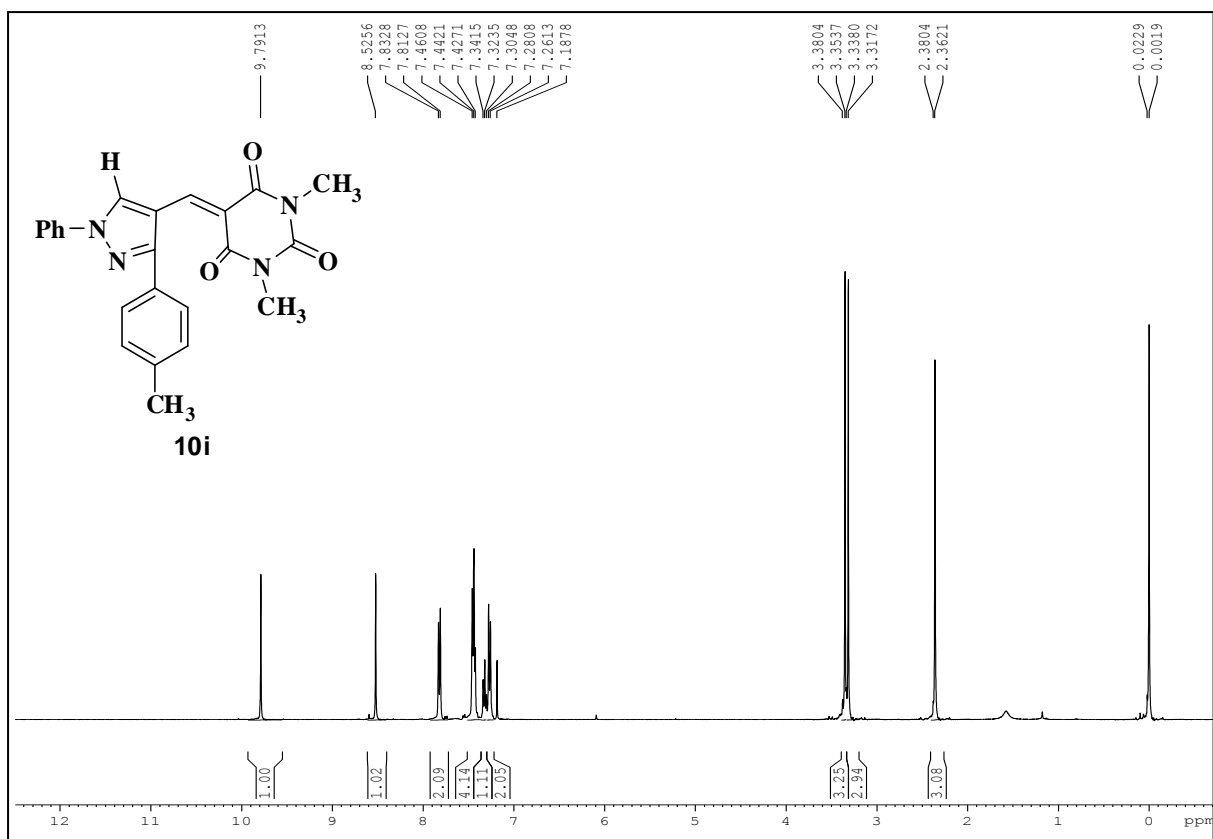


Figure S9: ¹H and ¹³C NMR Spectra of 10i in CDCl₃

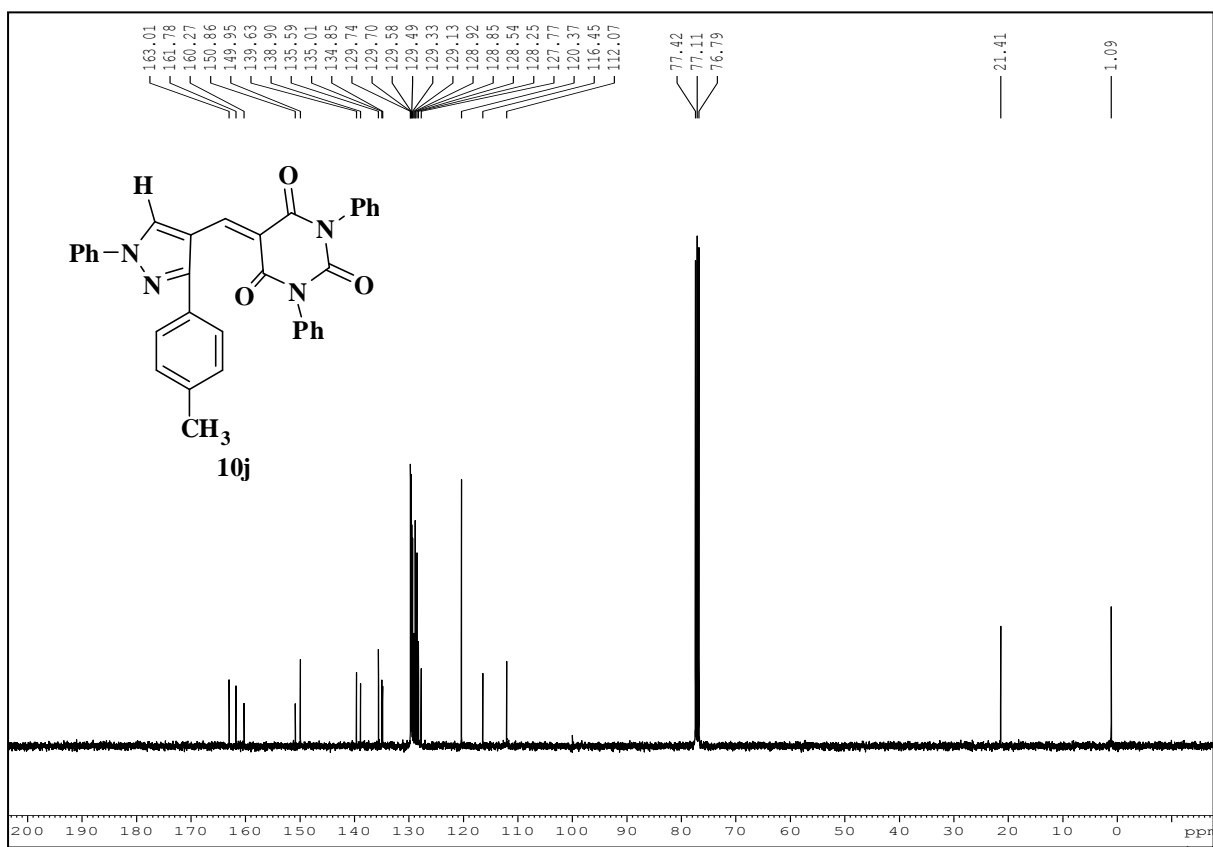
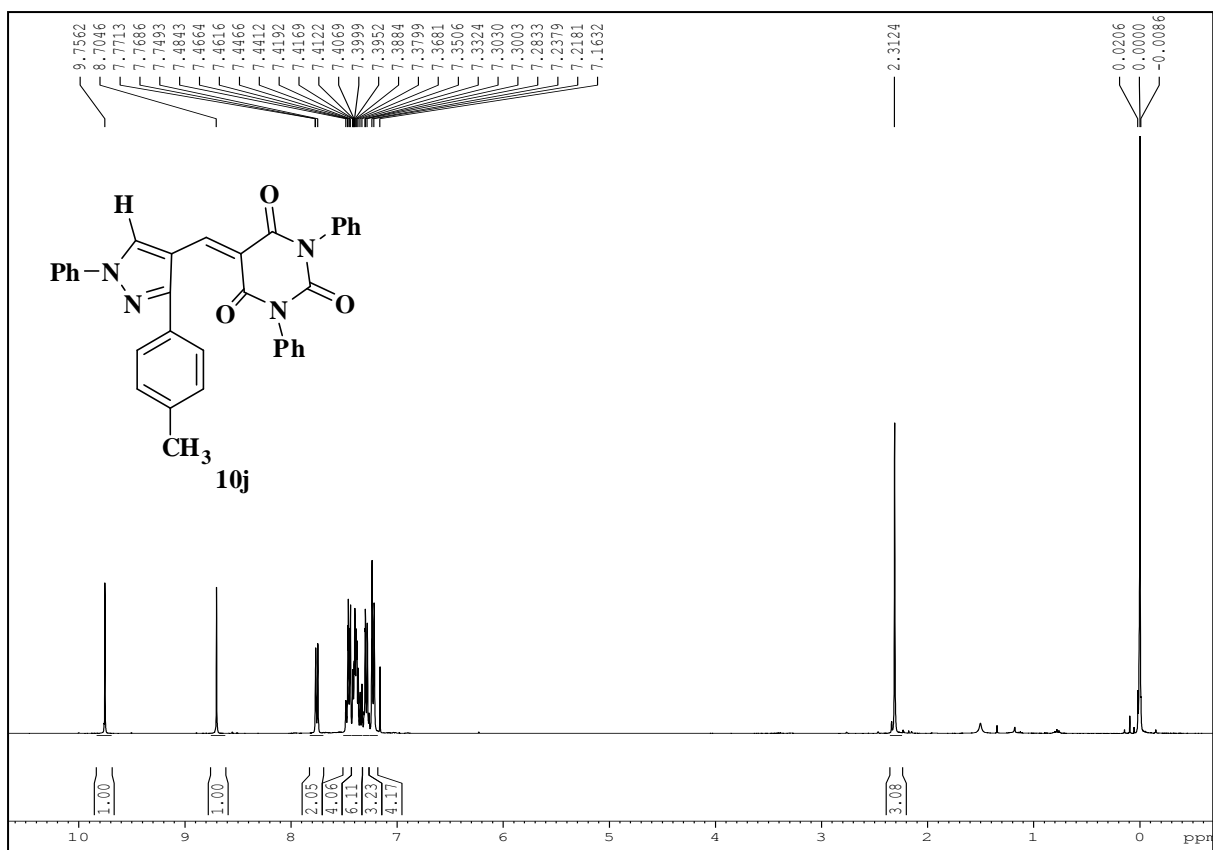


Figure S10: ¹H and ¹³C NMR Spectra of 10j in CDCl₃

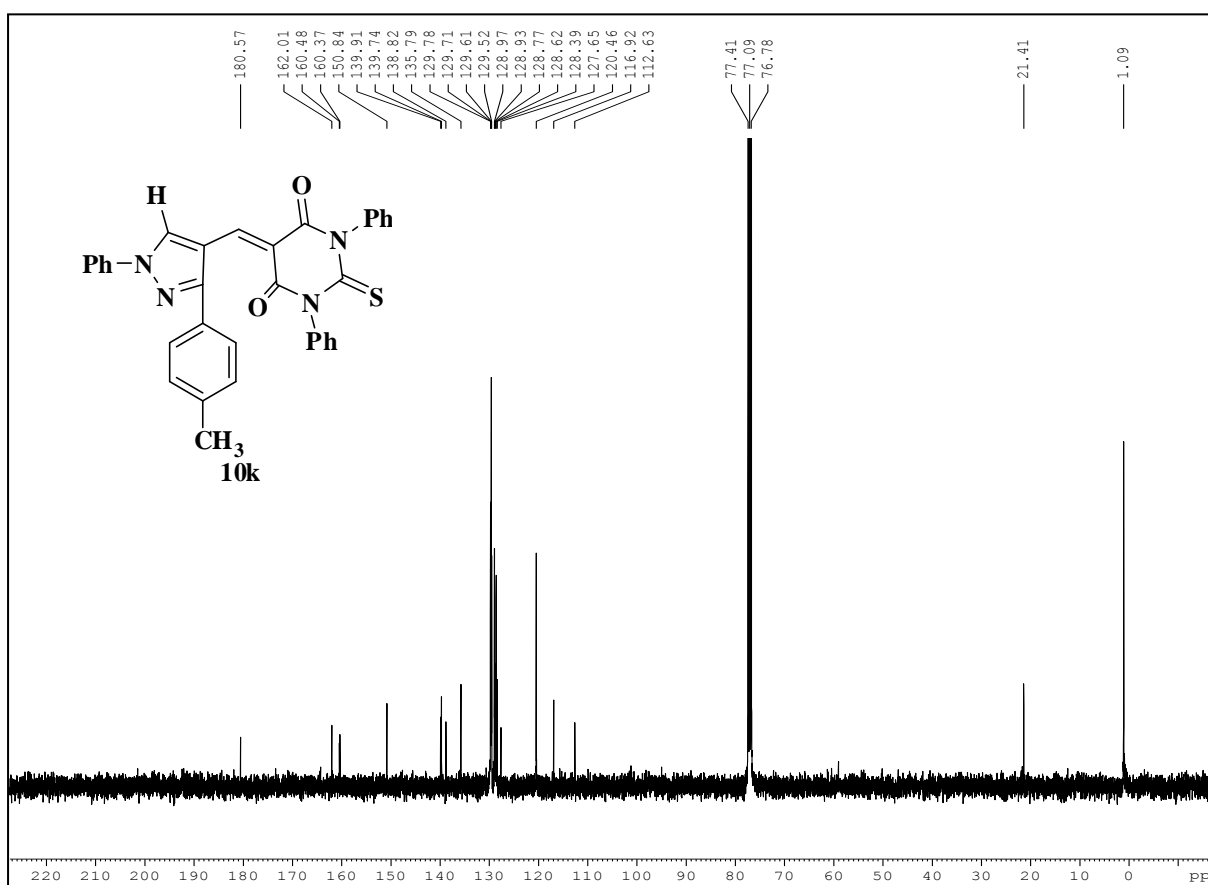
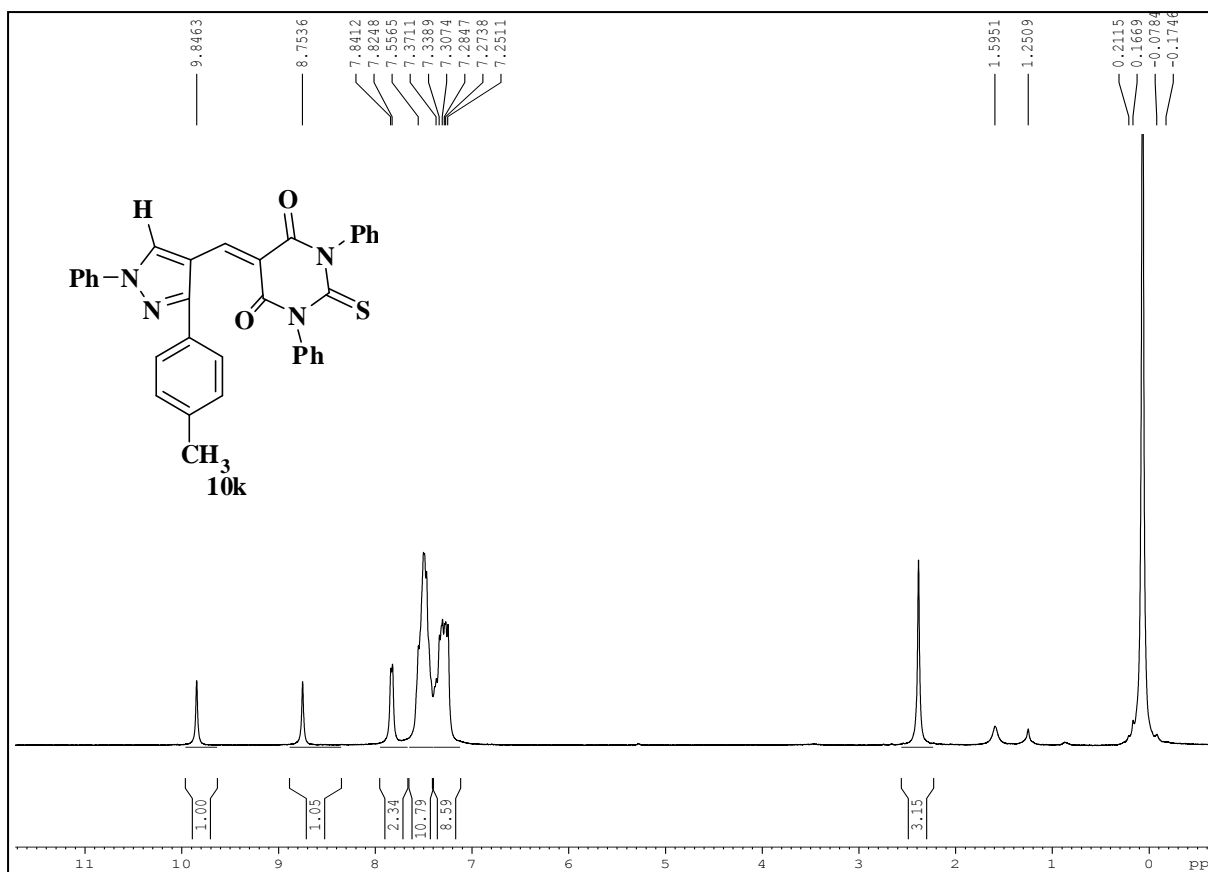


Figure S11: ¹H and ¹³C NMR Spectra of 10k in CDCl₃

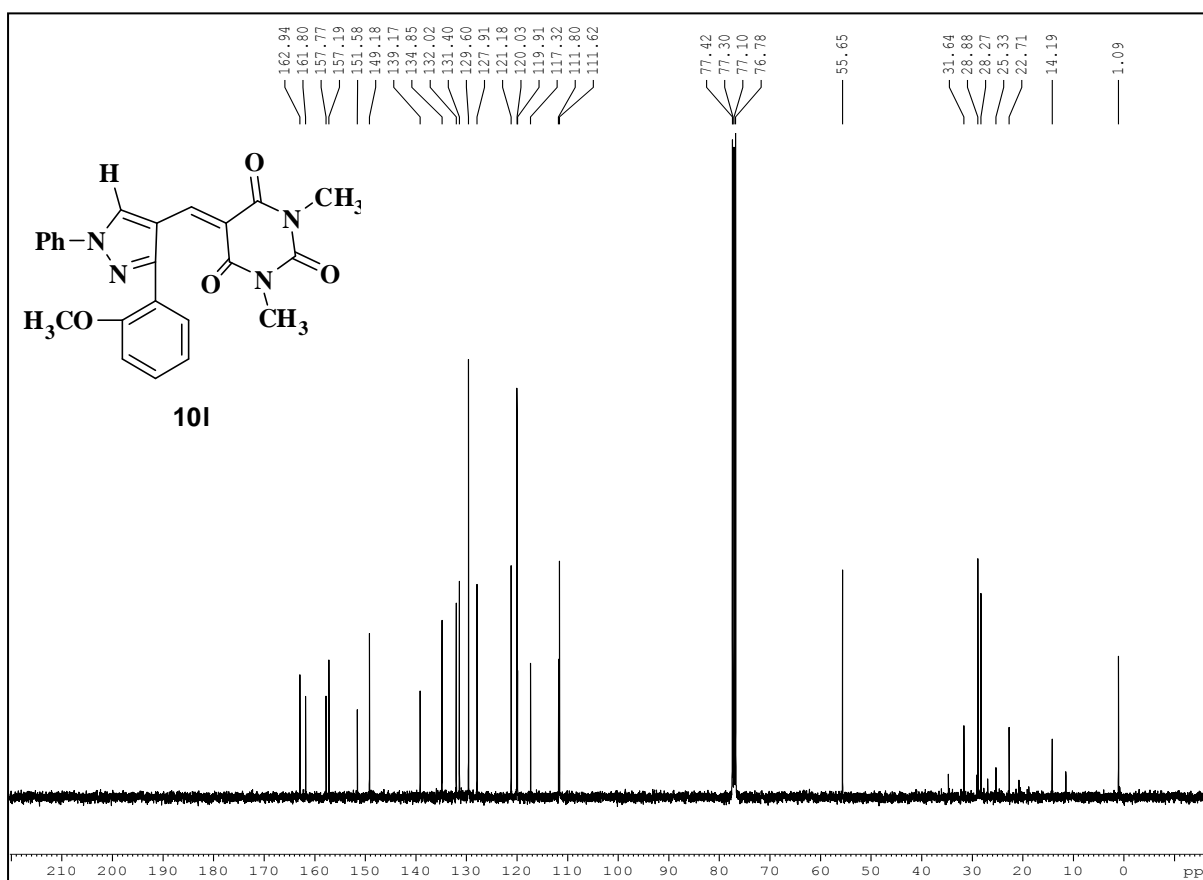
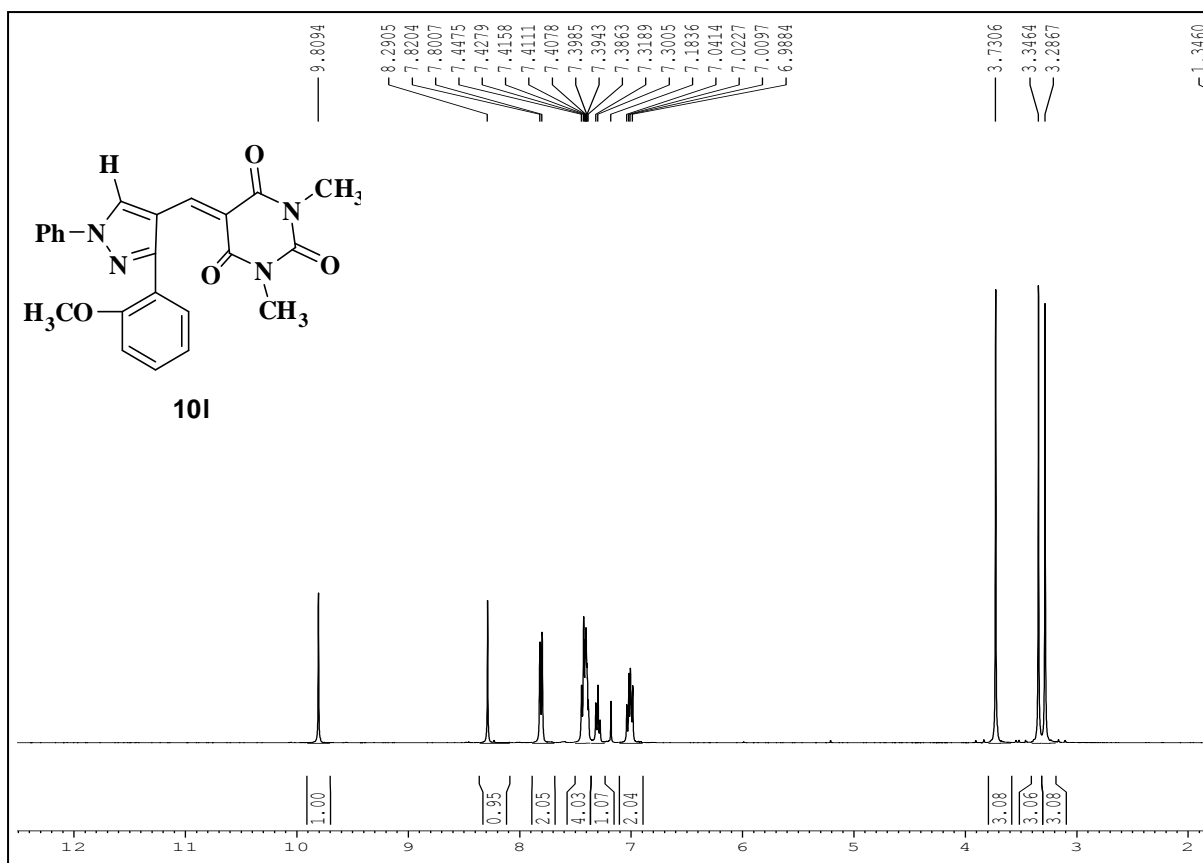


Figure S12: ¹H and ¹³C NMR Spectra of 10l in CDCl₃

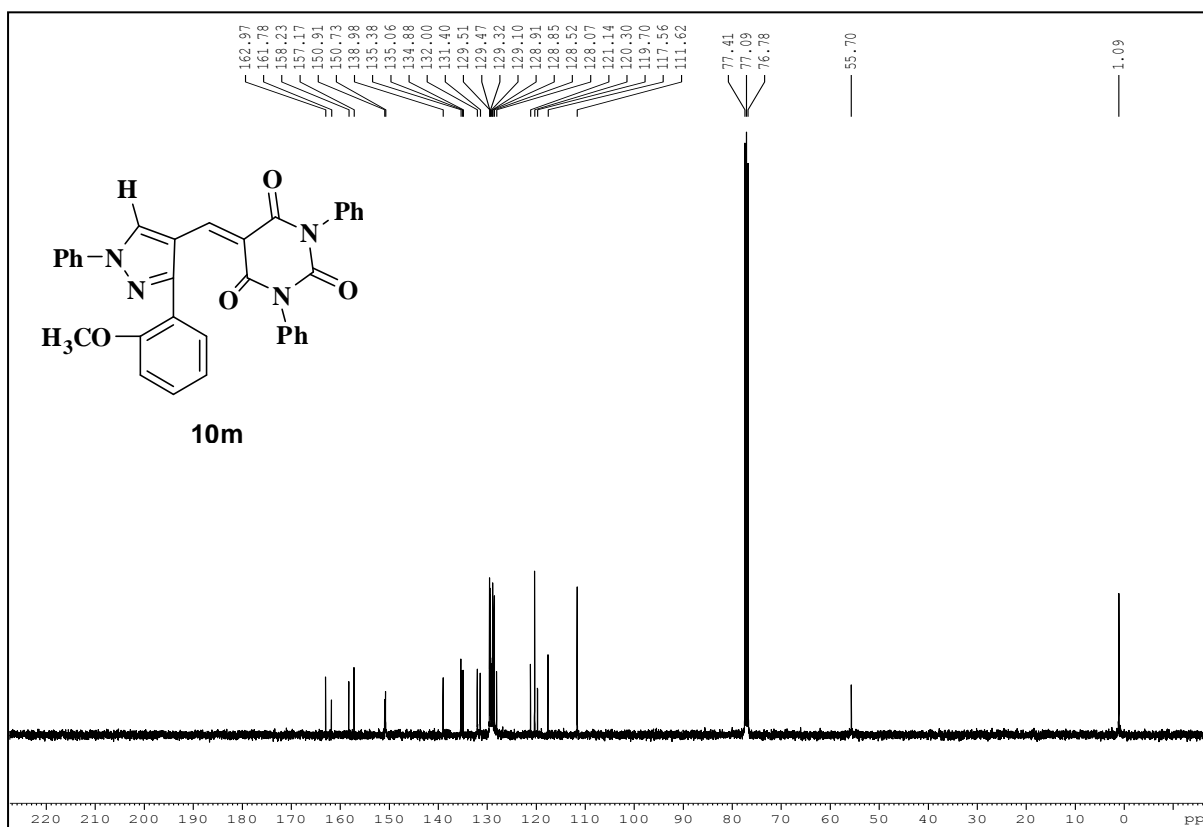
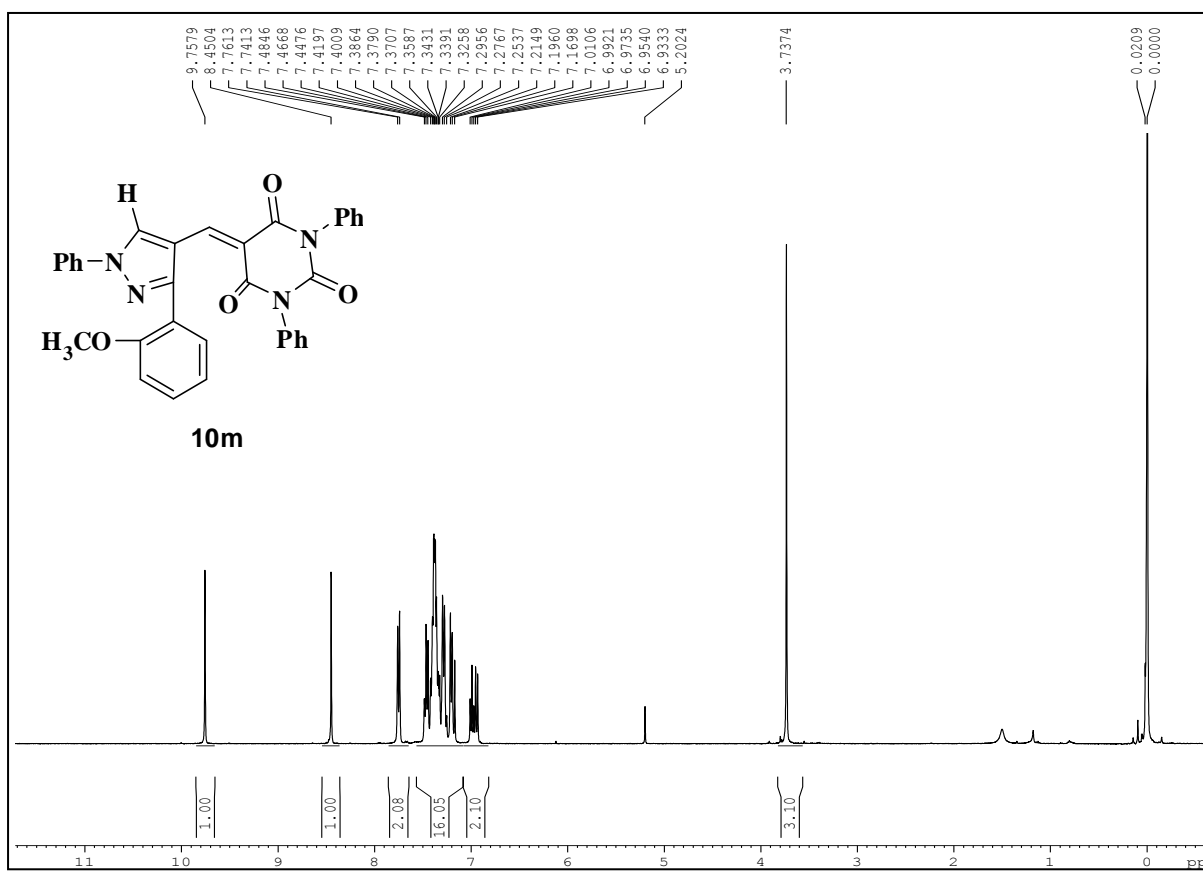


Figure S13: ¹H and ¹³C NMR Spectra of 10m in CDCl₃

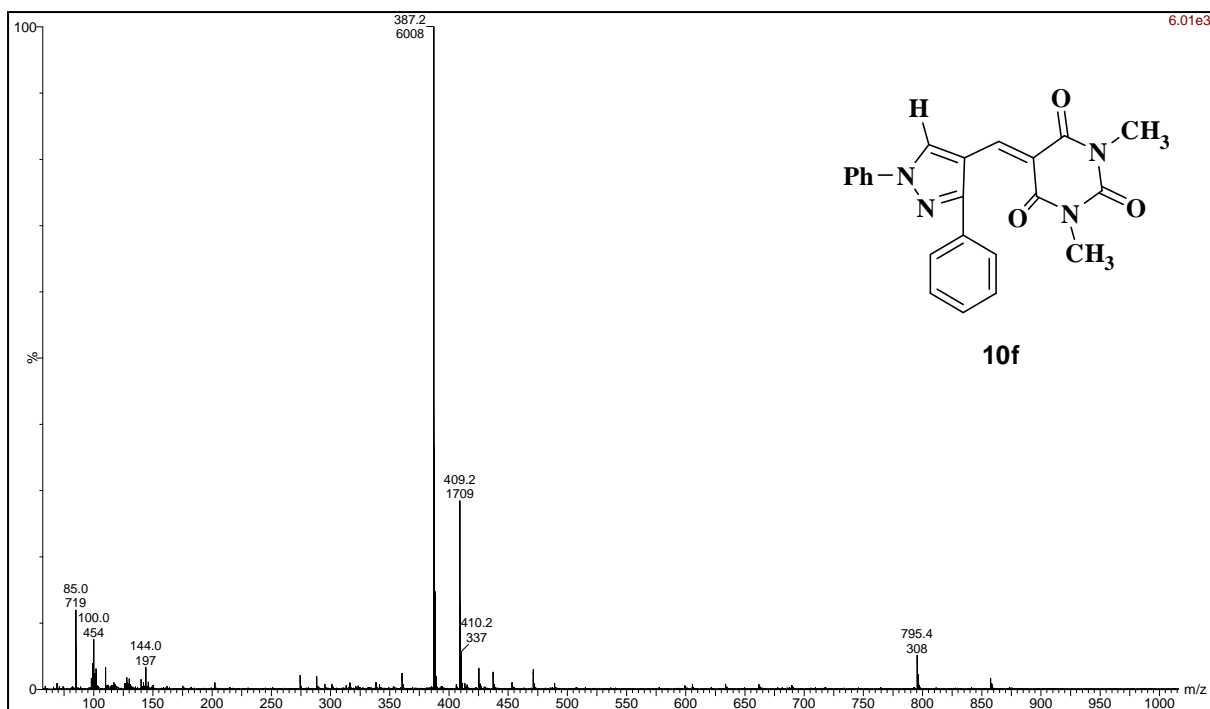


Figure S14: EI-MS spectra of 10f